

# Journal of Classification

## *Editor*

Phipps Arabie  
Graduate School of  
Management  
Rutgers University  
92 New Street  
Newark, NJ 07102-1895  
(BITNET: 2018001 at  
rutvm1)

## *Book Review Editor*

A. D. Gordon  
Mathematical Institute  
University of St. Andrews  
North Haugh  
St. Andrews KY16 9SS  
Scotland

## *Technical Editor*

Lynn Bilger

## *Editorial Board*

**H. H. Bock**, Aachen, FRG

**J. D. Carroll**, Newark, NJ,  
USA

**W. H. E. Day**, St. John's  
Nfld, Canada

**J. de Leeuw**, Los Angeles,  
CA, USA

**G. De Soete**, Ghent, Belgium

**W. S. DeSarbo**, Ann Arbor,  
MI, USA

**R. C. Dubes**, East Lansing,  
MI, USA

**J. Felsenstein**, Seattle, WA,  
USA

**O. Frank**, Stockholm, Sweden

**A. D. Gordon**, St. Andrews, UK

**J. C. Gower**, Leiden, The  
Netherlands

**R. L. Graham**, Murray Hill, NJ,  
USA

**P. E. Green**, Philadelphia, PA,  
USA

**J. A. Hartigan**, New Haven,  
CT, USA

**C. Hayashi**, Tokyo, Japan

**W. Heiser**, Leiden, The  
Netherlands

**E. W. Holman**, Los Angeles,  
CA, USA

**L. J. Hubert**, Champaign, IL,  
USA

**J. B. Kruskal**, Murray Hill, NJ,  
USA

**W. J. Krzanowski**, Exeter, UK

**N. Lauro**, Naples, Italy

**L. Lebart**, Paris, France

**B. Leclerc**, Paris, France

**R. F. Ling**, Clemson, SC, USA

**G. McLachlan**, Brisbane,  
Australia

**J. Meulman**, Leiden, The  
Netherlands

**B. Monjardet**, Paris, France

**F. Murtagh**, Munich, FRG

**F. J. Rohlf**, Stony Brook, NY,  
USA

**G. Saporta**, Paris, France

**M. Schader**, Mannheim, FRG

**R. R. Sokal**, Stony Brook, NY,  
USA

**Y. Takane**, Montreal, Que,  
Canada

**L. R. Tucker**, Champaign, IL,  
USA

Published for the  
**CLASSIFICATION SOCIETY OF NORTH AMERICA**

(with the support of the International Federation of Classification Societies)

Springer



International

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Printed in the United States of America  
© 1992 by Springer-Verlag New York Inc.



Index to Volume 9

Authors of Articles

ARABIE, P.: see HUBERT, L., et al. ....211

BARTHÉLEMY, J.-P.: see DE AMORIM, S. G., et al. ....17

BATAGELJ, V.: see FERLIGOJ, A. ....43

DE AMORIM, S. G., BARTHÉLEMY, J.-P., RIBEIRO, C. C.:  
Clustering and Clique Partitioning: Simulated Annealing and  
Tabu Search Approaches .....17

FERLIGOJ, A., BATAGELJ, V.: Direct Multicriteria Clustering  
Algorithms .....43

HARTIGAN J. A., MOHANTY, S.: The RUNT Test  
for Multimodality .....63

HEISER, W. J.: see VERBOON, P. ....237

HENDY, M. D.: see STEEL, M. A., et al. ....71

HESSON-McINNIS, M.: see HUBERT, L., et al. ....211

HOLMAN, E. W.: Statistical Properties of Large Published  
Classifications .....187

HUBERT, L., ARABIE, P., HESSON-McINNIS, M.: Multidimensional  
Scaling in the City-Block Metric: A Combinatorial Approach ....211

KIM, J.: see SOKAL, R. R., et al. ....117

MESSATFA, H.: An Algorithm to Maximize the Agreement Between  
Partitions .....5

MOHANTY, S.: see HARTIGAN, J. A. ....63

ODEN, N. L., SOKAL, R. R.: An Investigation of Three-Matrix  
Permutation Tests .....275

PENNY, D.: see STEEL, M. A., et al. ....71

RIBEIRO, C. C.: see DE AMORIM, S. G., et al. ....17

ROHLF, F. J.: see SOKAL, R. R., et al. ....117

SALTSTONE, R., STANGE, K.: A Computer Program to Construct  
Distributions with Specific Degrees of Skew and Kurtosis .....141

SCHNEIDER, R. B.: A Uniform Approach to Multidimensional  
Scaling .....257

SOKAL, R. R., KIM, J., ROHLF, F. J.: Character and OTU Stability  
in Five Taxonomic Groups .....117

SOKAL, R. R.: see ODEN, N. L. ....	275
STANGE, K.: see SALTSTONE, R. ....	141
STEEL, M.: The Complexity of Reconstructing Trees from Qualitative Characters and Subtrees .....	91
STEEL, M. A., HENDY, M. D., PENNY, D.: Significance of the Length of the Shortest Tree .....	71
VERBOON, P., HEISER, W. J.: Resistant Orthogonal Procrustes Analysis .....	237

### Reviewers of Books

BARTHOLOMEW, D. J.: <i>Measurement of Latent Traits by Proximity Items</i> .....	161
COLLINS, A. J.: <i>Matching Configurations</i> .....	173
D'AUBIGUY, G.: <i>Mathematical Aspects of Multiple Correspondence Analysis for Ordinal Variables</i> .....	143
DESARBO, W. S.: <i>A Comparison of Probabilistic Unfolding Theories for Paired Comparisons Data</i> .....	167
DUBES, R. C.: <i>Probabilistic Analysis of Packing and Partitioning Algorithms</i> .....	291
FINGLETON, B.: <i>Spatial Data Analysis in the Social and Environmental Sciences</i> .....	294
FURNAS, G. W.: <i>Envisioning Information</i> .....	154
GREENACRE, M. J.: <i>Multiway Data Analysis</i> .....	148
HENERY, R. J.: <i>Unfolding and Group Consensus Ranking for Individual Preferences</i> .....	176
KLAUER, K. C.: <i>Frontiers of Mathematical Psychology</i> .....	300
MOSKOWITZ, H. R.: <i>Ratio Scaling of Psychological Magnitude</i> .....	164
MURTAGH, F.: <i>Pattern Recognition: Statistical, Structural and Neural Approaches</i> .....	302
PENNY, D.: <i>The Comparative Method in Evolutionary Biology</i> .....	169
THOMPSON, R.: <i>Graphical Models in Applied Multivariate Statistics</i> .....	159
UPTON, G. J. G.: <i>The Statistical Analysis of Categorical Data</i> .....	145
VAN BLOKLAND-VOGELSANG, A. W.: <i>Data Theory and Dimensional Analysis</i> .....	297



WINDHAM, M. P.: <i>Datenanalyse, Klassifikation und Informationsverarbeitung</i> .....	305
WINSBERG, S.: <i>Metric Scaling: Correspondence Analysis</i> .....	151

### Authors of Books Reviewed

ANDERSEN, E. B.: <i>The Statistical Analysis of Categorical Data</i> .....	145
BOLANOWSKI, JR., S. J., GESCHEIDER, G., Eds.: <i>Ratio Scaling of Psychological Magnitude</i> .....	164
BOLASCO, S.: see COPPI, R. ....	148
BOSSUYT, P.: <i>A Comparison of Probabilistic Unfolding Theories for Paired Comparisons Data</i> .....	167
BROWN, D. R., SMITH, J. E. K., Eds.: <i>Frontiers of Mathematical Psychology</i> .....	300
COFFMAN, JR., E. G. LUEKER, G. S.: <i>Probabilistic Analysis of Packing and Partitioning Algorithms</i> .....	291
COMMANDEUR, J. J. F.: <i>Matching Configurations</i> .....	173
COPPI, R., BOLASCO, S., Eds.: <i>Multiway Data Analysis</i> .....	148
GESCHEIDER, G.: see BOLANOWSKI, JR., S. J. ....	164
GOEBL, H., SCHADER, M., Eds.: <i>Datenanalyse, Klassifikation und Informationsverarbeitung</i> .....	305
HAINING, R. P.: <i>Spatial Data Analysis in the Social and Environmental Sciences</i> .....	294
HARVEY, P. H., PAGEL, M. D.: <i>The Comparative Method in Evolutionary Biology</i> .....	169
HOIJTINK, H.: <i>Measurement of Latent Traits by Proximity Items</i> .....	161
JACOBY, W. G.: <i>Data Theory and Dimensional Analysis</i> .....	297
KOSTER, J. T. A.: <i>Mathematical Aspects of Multiple Correspondence Analysis for Ordinal Variables</i> .....	143
LUEKER, G. S.: see COFFMAN, JR., E. G. ....	291
PAGEL, M. D.: see HARVEY, P. H. ....	169
ROMNEY, A. K.: see WELLER, S. C. ....	151
SCHADER, M.: see GOEBL, H. ....	305
SCHALKOFF, R.: <i>Pattern Recognition: Statistical, Structural and Neural Approaches</i> .....	302

SMITH, J. E. K.: see BROWN, D. R. ....	300
TUFTE, E. R.: <i>Envisioning Information</i> .....	154
VAN BLOKLAND-VOGELESANG, R.: <i>Unfolding and Group Consensus Ranking for Individual Preferences</i> .....	176
WELLER, S. C., ROMNEY, A. K.: <i>Metric Scaling: Correspondence Analysis</i> .....	151
WHITTAKER, J.: <i>Graphical Models in Applied Multivariate Statistics</i> .....	159